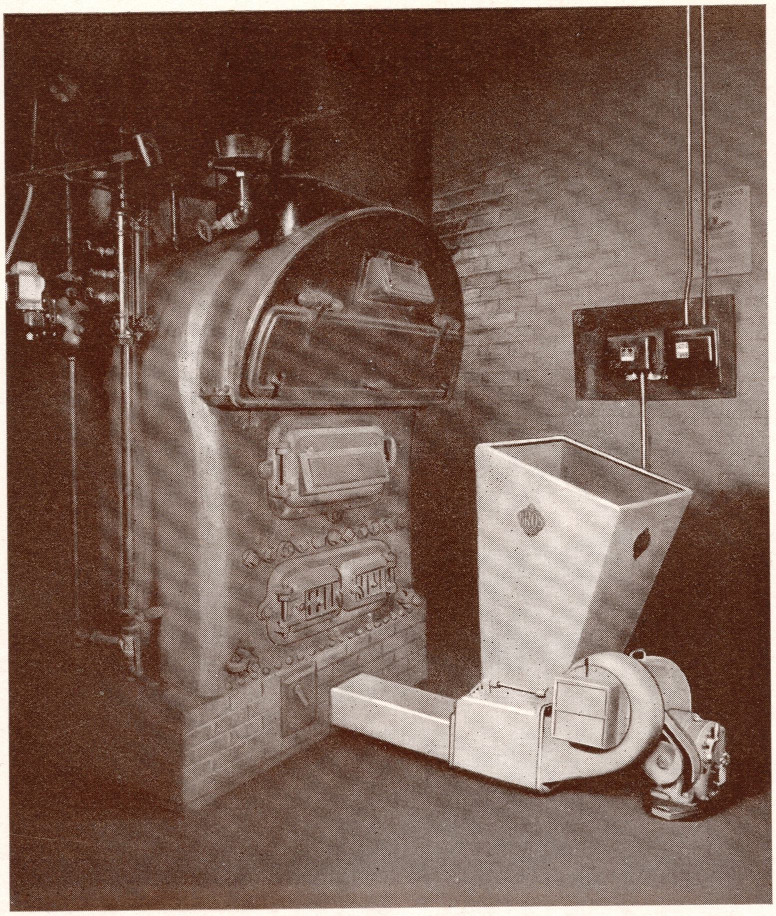
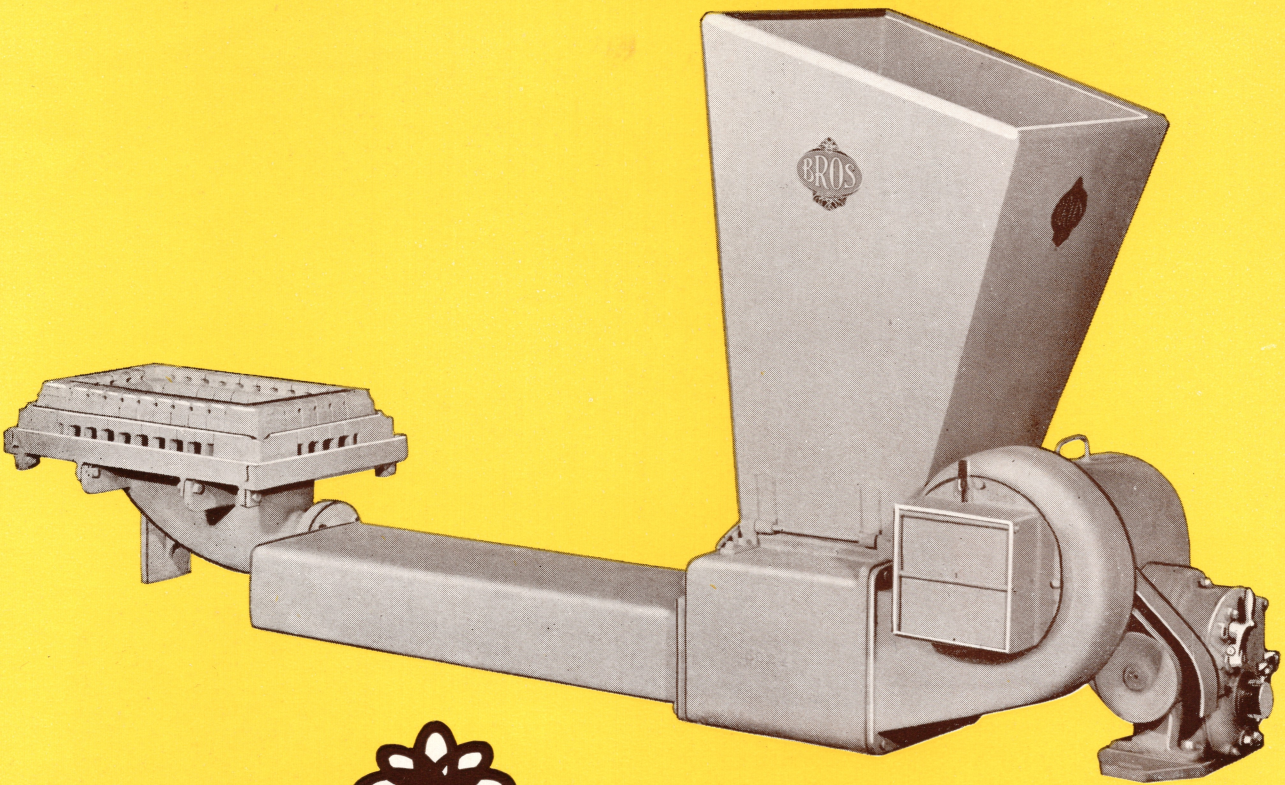


BROS
MINNEAPOLIS

SCREW FEED STOKERS



BROS
MINNEAPOLIS

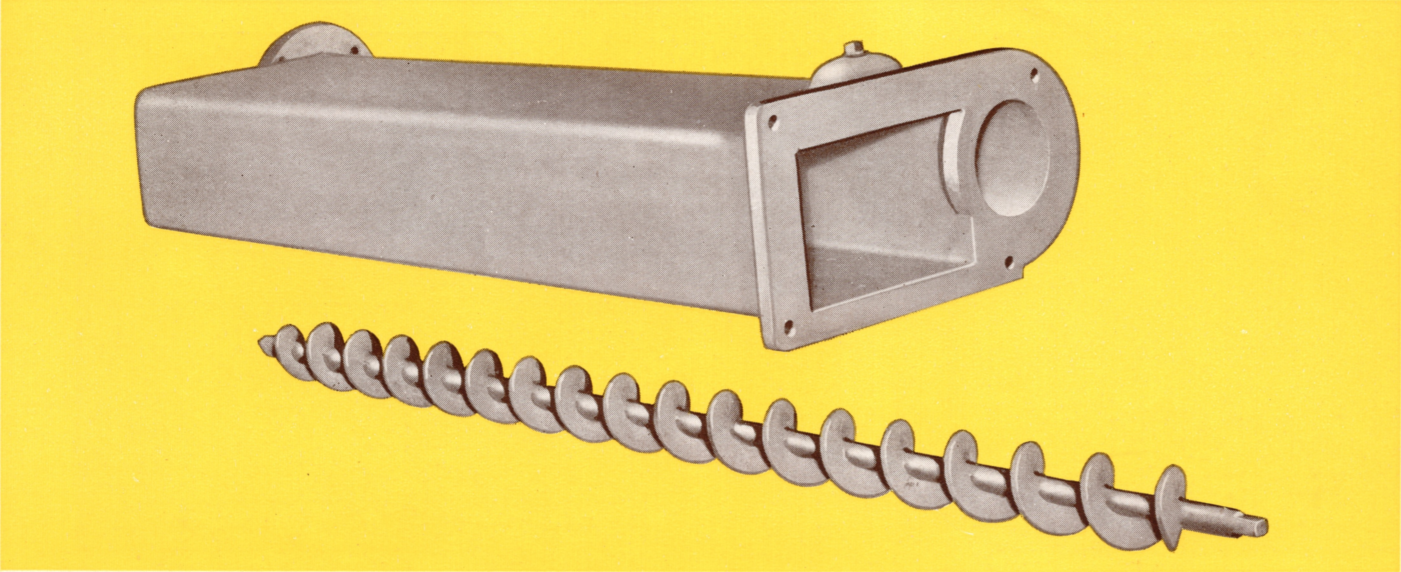
SCREW FEED

Consider this carefully before buying your stoker—consider the experience and reputation of its maker! For 50 years Bros has been identified with, and considered to be an authority in the design and construction of highly efficient commercial and industrial heating installations. From this vast technical background of boiler experience, the Bros Underfeed Screw Stoker has been perfected. When you install this Stoker, you have a unit that is unsurpassed for economy of operation, mechanical perfection and excellence of workmanship.

You'll never need to worry about overworking the Bros Screw Feed Stoker. You can run this unit to full load capacity continuously, day after day, without fear of any harmful effect on the machine or without danger of breakdowns.

The Bros Screw Feed Stoker is built to handle tough stoking. It doesn't need pampering or petting because there is nothing delicate about its design or construction.

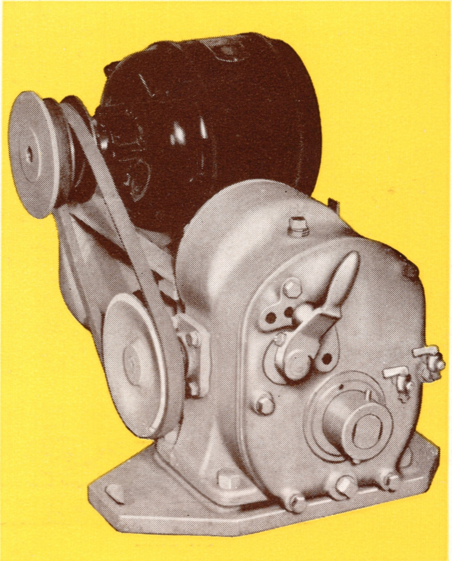
All parts are built of heavy cast iron, precision machined and assembled by expert mechanics. The motors, controls and gear units are products of nationally recognized manufacturers whose products are accepted as standard equipment everywhere. Every Screw Feed Stoker that leaves our plant is first subjected to rigid running tests and minute inspections. When the Bros Stoker starts working for you, it carries a positive guarantee against breakage for one year —and like all Bros boiler-room equipment, the Screw Feed Stoker can be depended upon to give a fine account of itself in years of low cost, dependable service.



Combining the air box and screw conveyor into one solid, heavy casting has simplified the installation and improved the appearance of the Bros Screw Feed Stoker to a marked degree. This construction eliminates the protection pans and cumbersome brickwork necessary to prolong the life of the air duct. Hot clinkers and coals can now be allowed to cool in front of the boiler without damaging the stoker.

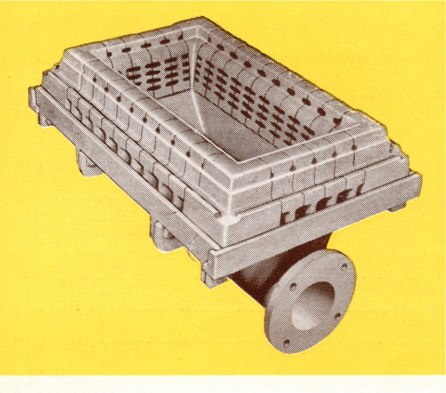
The screw conveyor is constructed of a special alloy steel, capable of withstanding high heats without warping or bending. Strong and sturdy, this Alloy Steel screw reduces maintenance cost to a minimum.

STOKERS

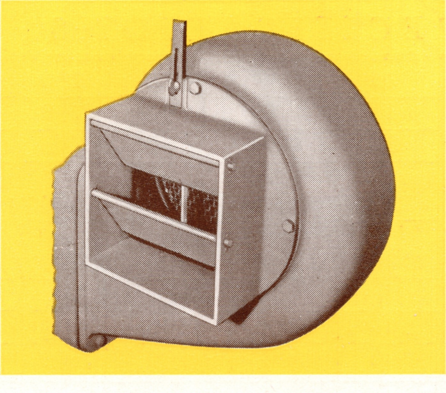


A three-speed gear box furnishes the reduction speed for the Bros Screw Feed Stoker, giving a range of coal feed suitable for changing weather conditions. Belt driven with a patented belt tightener on the fan hub, the unit is noiseless.

The belted gear on the gear reduction case is removable. When desired, a larger gear can be installed at a small expense to reduce the coal feed suitable for a hot water load for summer use. The combined unit is compact and capable of withstanding hard usage.



The Bros retort is guaranteed against warping. After years of experiment, a casting mix has been perfected which will withstand the high temperatures to which Stoker Retorts are subjected. These strong, new, heavy tuyere castings also eliminate the nuisance of burning out and plugging. This feature easily lowers the maintenance cost of the Bros Screw Feed Stoker 50 per cent—and greatly increases the burning efficiency.



Damper regulation, automatic and easily adjusted, features the Bros Screw Feed Stoker. A cast iron fan casing, which is bolted securely to the stoker, eliminates vibration. The fan damper is equipped with ball-bearing vanes and opens and closes with the operation of the stoker. A simple fan regulator located on top of the fan maintains proper air setting. Automatic closing vanes makes possible long banking period without the waste of fuel.

1016 NICOLLET BUILDING
Minneapolis

FRANCIA APARTMENTS
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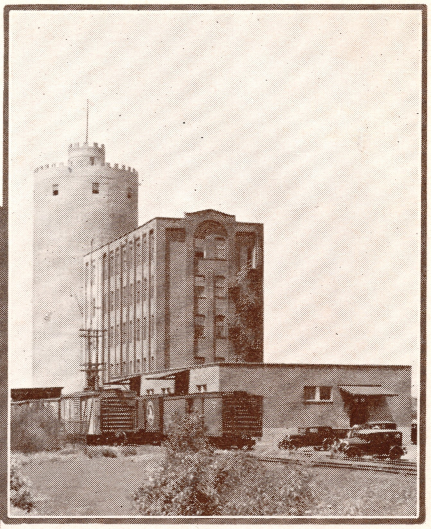

CAPITAL FLOUR MILL
St. Paul

WALSH INVESTMENT BUILDING
St. Paul

GRAU CURTIS BUILDING
Minneapolis

SPECIFICATIONS

Number of Stoker	25	50	90	130	175	250	370	500
Coal Feed Per Hour, Maximum	25	50	90	130	175	250	370	500
Coal Feed Per Hour, Minimum	25	50	30	43	58	84	123	165
Steam Radiation, Sq. Ft. With 13,000 B.T.U. Coal	700	1,400	2,500	3,600	4,900	7,000	10,000	14,000
Steam Radiation, Sq. Ft. With 10,000 B.T.U. Coal	500	1,000	1,900	2,800	3,800	5,400	8,000	10,800
Size of Motor, H.P.	⅓	⅓	⅓	½	¾	1	2	3
Coal Hopper, Lbs.	300	300	400	500	500	500	600	600
Approximate Weight, Lbs.	800	800	1,100	1,300	1,350	1,400	2,400	2,500

Water Radiation—Add 60% to Steam Ratings. Ratings Based on 20% Overload.

Wm BROS BOILER & MFG. COMPANY
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